



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/274,940	03/23/1999	TIMOTHY CUNNINGHAM	2204/116	9148

2101 7590 09/26/2002

BROMBERG & SUNSTEIN LLP  
125 SUMMER STREET  
BOSTON, MA 02110-1618

EXAMINER

ABELSON, RONALD B

ART UNIT	PAPER NUMBER
----------	--------------

2663

DATE MAILED: 09/26/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/274,940

Applicant(s)

CUNNINGHAM ET AL.

Examiner

Ronald Abelson

Art Unit

2663

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 23 September 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-61 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-8, 10 - 13, 18-31, 34-41, 43-48, 51-57, and 59-61 is/are rejected.
- 7) ☒ Claim(s) 4, 5, 9, 14-17, 32, 33, 42, 49, 50 and 58 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 September 1999 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

Art Unit: 2663

*Specification*

1. The disclosure is objected to because of the following informalities: The status of the co-pending application on page 1 must be updated.

Appropriate correction is required.

*Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Art Unit: 2663

2. Claims 1-3, 6-8, 10 - 13, 18-31, 34-41, 43-48, 51-57, and 59-61 rejected under 35 U.S.C. 102(e) as being anticipated by Luciani (US 6,331,984).

Regarding claims 1, 22, and 39, Luciani teaches a method and apparatus for translating addresses in a communication network having multiple overlapping address domains (local IP addresses in one leaf may be reused by host in another leaf, fig. 1, col. 2 lines 37 - 65). The system receives an overlapping address and translates the overlapping local address into a unique global address (replacing the local IP address with a globally unique IP address, col. 2 line 66 - col. 3 line 17).

Regarding claims 56 and 60, in addition to the limitations listed in claim 1, Luciani teaches forwarding the translated packet to the destination host (forwarding the datagram to host 121, col. 2 line 66 - col. 3 line 17).

Regarding claims 2, 12, 26, 43, and 57, selecting the unique global address from among several global addresses (col. 2 lines 23 - 36) and mapping the unique global address to the overlapping local address exclusively for the specified outbound address domain (fig. 3, col. 3 lines 33 - 62).

Regarding claims 3, 13, and 18-20, maintaining a number of address translation entries (col. 2 lines 23 - 36), finding an

Art Unit: 2663

address translation entry and extracting the unique global address (col. 2 line 66 - col. 3 line 17).

Regarding claims 6, 23, and 40, receiving a translation request / synchronization message (col. 5 lines 26 - 52).

Regarding claims 7, 8, 24, 25, and 41, receiving a translation request message is part of a domain name resolution procedure (fig. 3, col. 7 lines 23 - 40).

Regarding claims 10 and 27, a local source address and global unique destination address (col. 2 line 66 - col. 3 line 17).

Regarding claim 11, see claims 3 and 60.

Regarding claims 21, 34, 35, 37, 38, 47, 51-55, 59 and 61, in addition to the limitations of claims 3 and 18, translating the destination global address to the corresponding destination local address (translates the globally unique destination IP address with the local IP address, col. 2 line 66 - col. 3 line 17).

Regarding claims 28 - 30 and 44-46, see limitations for claims 3, 56 and 60.

Regarding claim 31, the translating logic determines the source address domain for the packet and selects a source address translation table based upon the source address domain

Art Unit: 2663

for the packet (locates the route, col. 2 line 66 - col. 3 line 17). By locating the route, the source address domain is found.

Regarding claims 36 and 48, mapping the destination host global address to the corresponding source address domain (fig. 3).

Regarding claim 58, see claims 3 and 11.

#### ***Allowable Subject Matter***

3. Claims 4, 5, 9, 14-17, 32, 33, 42, 49, 50, and 58 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 4, 5, 32, 33, 49, 50, nothing in the prior art teaches or fairly suggests an address translation table having an inbound local address, outbound address domain field, and outbound global address, in combination with the other limitations listed in the claim (see fig. 4 of Luciani).

Regarding claim 9, nothing in the prior art teaches or fairly suggests a translation response message, in combination with the other limitations listed in the claim.

Art Unit: 2663

Regarding claim 14, nothing in the prior art teaches or fairly suggests selecting a source address translation table based upon the source (inbound) address domain for the packet, in combination with the other limitations listed in the claim.

Regarding claim 17, nothing in the prior art teaches or fairly suggests determining the source address domain implicitly based upon a network interface, in combination with the other limitations listed in the claim.

Regarding claim 42, nothing in the prior art teaches or fairly suggests the overlapping local address is a destination host local address from a destination address domain, and the outbound address domain is a source address domain, in combination with the other limitations listed in the claim.

Regarding claim 58, nothing in the prior art teaches or fairly suggests mapping the source local address to the source host global address, in combination with the other limitations listed in the claim.


### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald Abelson whose telephone number is (703) 306-5622. The examiner can normally be reached on M-F.

Art Unit: 2663

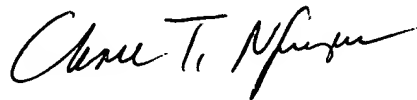
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (703) 308-5340. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9600.

  
Ronald Abelson  
Examiner  
Art Unit 2663

  
\*\*\*

September 24, 2002



CHAU NGUYEN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600